PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TOMMY LAIRD	04/07/2010
RICHARD C. DAVIS	04/07/2010

RECEIVING PARTY DATA

Name:	SMITH INTERNATIONAL, INC.
Street Address:	1310 RANKIN RD.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77073

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12748012

CORRESPONDENCE DATA

Fax Number: (713)228-8778

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: 05516/443001

NAME OF SUBMITTER: MINH S. THACH

Total Attachments: 3

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PATENT REEL: 024232 FRAME: 0641 71.004.771 00.046 10

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Smith International, Inc.

having the following address:

1310 Rankin Rd. Houston, Texas 77073

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

DOWNHOLE TOOL DEACTIVATION AND RE-ACTIVATION

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

- To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
- To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
- To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

OSHA

יקיי	31 7. 7010	1st Inventor Signature:	
	Date Date	Print or Type Name:	Tamanar I aind
		2 nd Inventor Signature:	
	Date	Print or Type Name:	Dishard Davie
		3rd Inventor Signature:	
	Date		
		4th Inventor Signature:	
	Date		
5	S. A. C.	3 rd Investor	4 th Invertor
2	Before me personally appeared:	Tommy Laird	Richard Davis 2 rd Inventor
Z			
TAKY	each of whom acknowledged the f	5 th Inventor 7 th Inventor	6 th Inventor 8 th Inventor deed and also represented that ho /she-is authorizes
NOTARY PUBLIC	each of whom acknowledged the fexecute this Assignment. Dated: April 7,201	Finenter **Inventor foregoing instrument to be a free act and o	8th Inventor leed and also represented that he/she is authorized
NO DATE IN	execute this Assignment.	Finenter **Inventor foregoing instrument to be a free act and o	Ş th Inventor
	execute this Assignment.	Finenter **Inventor foregoing instrument to be a free act and o	8th Inventor leed and also represented that holeho is authorized fly commission expires: 8-15-2613
	execute this Assignment.	o Pam Daws Notary Public N	8th Inventor leed and also represented that he /aho is authorize
MITNESSES NOTART P	execute this Assignment. Dated: April 7,201	Finentor Foregoing instrument to be a free act and of the second of the	*Inventor leed and also represented that he/she is authorize fly commission expires: 8-15-2013 PANDAVIS MY COMMISSION EXPIRES

When this Assignment is <u>not</u> filed concurrently with the patent application, the following identifying information may be added <u>after</u> execution:

U.S. Application Serial No.: Filing Date: 12/748,012 March 26, 2010



PATENT

REEL: 024232 FRAME: 0643

~~~~~~~		1st Inventor Signature:			
Date		Print or Type Name: Tommy Laird		aird	
4.	1/1/10	2 nd Inventor Signature:	Mayer	her	
	Date	Print or Type Name: Richard Davis		avis	
		3 rd Inventor Signature:			
	Date	Print or Type Name:			
		4th Inventor Signature:			
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Date	Print or Type Name:			
	of Texas				
State Coun	ty of Harris	kan da ana ana ana ana ana ana ana ana an			
	me personally appeared:	Temmy Laird	Richard Davis		
	•	1 ³ Inventor		2 nd inventor	
		3 rd Inventor		4 th Inventor	
		5th Invantor		6th Inventor	
		7 ⁴ Inventor		8th Inventor	
each of	each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorize execute this Assignment.				
	d: 4/7/10		hoverer		
	anguagas and a said a said and a said a	Notary Public	My commission expires:	INEZ G. CAMERON MY COMMISSION EXPIRE June 8, 2012	
		Signature of Witness:	Selve on the season.		
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Intellectual Property Law

U.S. Application Serial No.:

Filing Date:

PATENT REEL: 024232 FRAME: 0644

March 26, 2010

RECORDED: 04/14/2010